



Subject card

Subject name and code	Essentials of management, PG_00045289						
Field of study	Data Engineering						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	first-cycle studies		Subject group		Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		English		
Semester of study	2		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		exam		
Conducting unit	Department Of Management -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Aleksander Orłowski				
	Teachers		dr hab. inż. Aleksander Orłowski dr Franciszek Kutrzeba				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	30.0	0.0	0.0	0.0	45
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	45		4.0		26.0	75
Subject objectives	Obtaining knowledge about the basics of organizational management and acquiring the ability to use it in practice and work in an international team on management problems.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_K02] makes competent and ethical decisions to create and maintain economic, social and environmental values		the student has knowledge of organization development methods		[SK1] Assessment of group work skills		
	[K6_U01] analyzes and evaluates complex processes in the context of their improvement possibilities, using various methods, including analytical and simulation		student has knowledge and experience in the analysis of processes in organizations and knows the methods that can help in this		[SU1] Assessment of task fulfilment		
	[K6_W01] identifies conditioning of the processes occurring in the analyzed systems and selects methods for solving them, using the accumulated knowledge and taking into account the mutual relations between the analyzed phenomena		the student has the ability to identify management processes and select methods to support these processes.		[SW1] Assessment of factual knowledge		
Subject contents	1. Introduction management and managers 2. Planning nature and purpose 3. Objectives, strategies 4. policies, decision making 5. Organizing nature of organizing 6. Organizational structure, 7. Delegatin and decentralization 8. Organization 9. Motivation/leading human factors and motivation 10. Controlling system and process of controlling 11. The evolution of management (Taylor, Fayol)						
Prerequisites and co-requisites	No requirements						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Test	51.0%	40.0%
	Exam	51.0%	60.0%
Recommended reading	Basic literature	Griffin R. W. , Management, Houghton Mifflin Company. Stoner J.A.F. , R.E. Freeman, Management, Prentice-Hall International Edition. Weihrich H., Management a global perspective, McGraw-Hill Inc. Hodgetts R. M., Luthans F., International Management, McGraw-Hill Inc. Stephen P. Robbins, Mary A. Coulter, David A. De Cenzo, Fundamentals of Management, Global Edition 11th Edition, 2020.	
	Supplementary literature	R. Griffin, Podstawy zarządzania organizacjami, PWN, Warszawa 2001; S. Robbins, D. DeCenzo, Podstawy zarządzania, PWE, Warszawa 2002; P. Drucker, Praktyka zarządzania, MT Biznes, Warszawa 2005;	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	1. Centralization, describe + one example of centralization. 2. What is BCG matrix used for?		
Work placement	Not applicable		

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